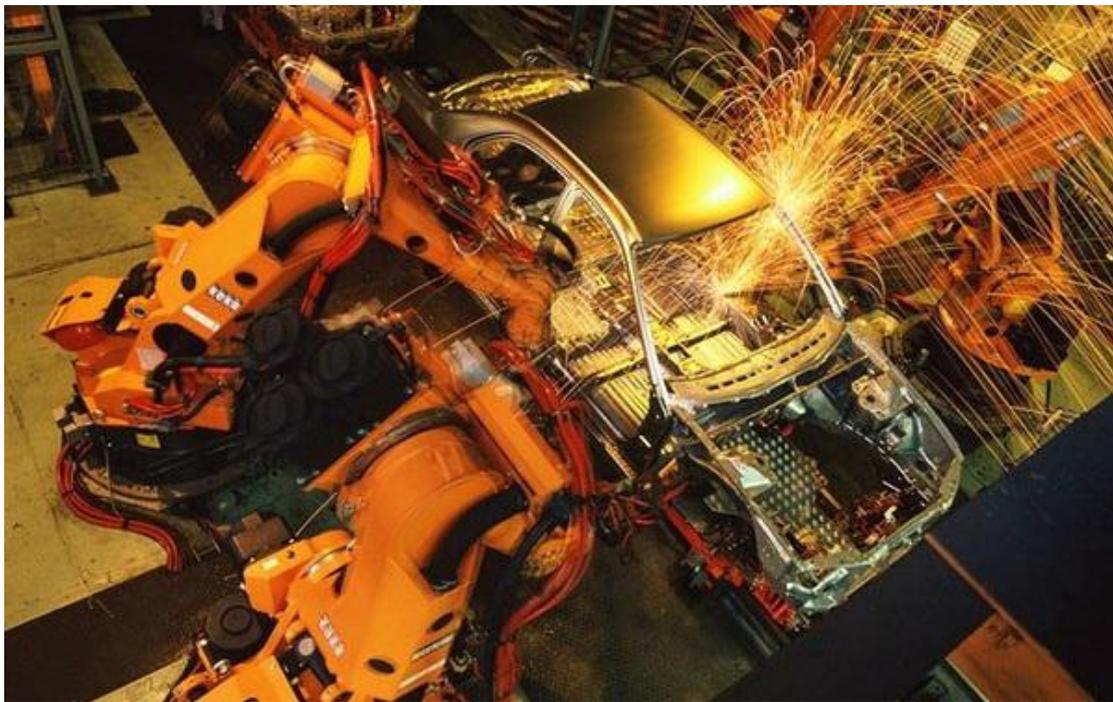


HAN' S GS laser welding and laser cutting help the realization of lightweight vehicle

With the adjustment of energy structure and environmental protection requirements, the automotive industry is moving toward the direction of light weight, data show that the quality of each car down 10%, oil consumption fell about 3% to 5%. Car lightweight not only can effectively reduce energy consumption, increase the use of car functions, but also can reduce production costs and improve vehicle quality, weight loss for the car has become an important direction for automobile manufacturing.



Of course, the weight of the car is not just to reduce the weight of the car , but to ensure the quality of the car, the more new materials used in automotive functional parts, structural parts, so that the performance of auto parts more outstanding, While lighter weight, to ensure that the car driving process to reduce the energy consumption, to achieve multiple effects.

Automotive lightweight technology is mainly achieved through the following ways: the proportion of lightweight materials rising, aluminum, magnesium alloy, titanium alloy, high strength steel, plastic, powder metallurgy, ecological composite materials and ceramics applications; structural optimization (Including CAD / CAE / CAO) and structural analysis, etc., such as the use of front-wheel drive, high rigidity structure and ultra-light suspension structure to achieve the purpose of lightweight,

computer-aided integration technology (including CAD / CAE / CAO) and structural analysis, Technology development; to promote the automobile manufacturing industry in the forming method and connection technology innovation.



In recent years, laser processing, industrial robots, digital control as the representative of the advanced technology is constantly promoting the upgrading of automobile manufacturing, and laser as an advanced processing methods, Destined to bring a revolutionary breakthrough in the development of the automobile industry. At present, HAN'S GS laser products in the field of automotive manufacturing mainly concentrated in laser welding, laser cutting, laser weakening, laser marking, laser resistance and laser remanufacturing applications.

HAN'S GS laser products in the automobile manufacturing the most important advantages in its advanced non-contact processing methods, in the automotive white body, automotive electronics, steel processing and other fields for processing technology innovation has played an important role. In the application of new materials such as aluminum alloy, magnesium alloy and titanium alloy, laser cutting is faster and more accurate than the conventional cutting method, and laser cutting is easier to realize for these difficult materials. The progress of technology has also made the application of these new materials from the ideal into reality, so that new materials can be achieved in the car lightweight.

The traditional production methods, some rely on screws fastening, some rely on adhesive connection, the traditional method can not meet the modern automobile manufacturing in the precision and ruggedness requirements, and the application of new materials, but also to the traditional method slightly disadvantage. The HAN'S GS laser welding products are non-contact, in the processing process, you can not touch the product will be able to achieve precision welding, in the connection of ruggedness, seamless, precision and cleanliness to achieve the process of leap Progress, will become an important way of forming the future.

Laser technology for automotive lightweight play an important role, which greatly enhance the performance and safety of vehicles, the future of HAN'S GS laser products in the field of automotive applications prospects.